

REMARKS/ARGUMENTS

This Amendment is submitted in response to the Office Action dated May 1, 2007, and within the period for reply extending to August 1, 2007. The current status of the claims is summarized as follows:

- 5 • Claims 1, 6-9, 11-12, 15-20, and 23-24 are currently amended.
- Claims 25-36 are cancelled.
- Claims 37-45 are new.
- Claims 1-24 and 37-45 are pending in the application after entry of the present Amendment.

10 **Specification**

The Office has objected to the "Related Applications" section of the disclosure because serial numbers/patent numbers are missing therefrom. As indicated in the Amendments to the Specification section above, the Applicants have amended the paragraphs of the "Related Applications" section to recite the missing the application
15 serial numbers and filing dates. Therefore, the Office is kindly requested to withdraw the objection to the specification.

Rejections under 35 U.S.C. 112

Claims 1-36 were rejected under 35 U.S.C. 112, second paragraph, as being
20 indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These rejections are traversed.

With regard to claims 1-24, each of the socket layer, the TCP layer, and the IP layer refer to a particular protocol layer in a network communication protocol stack. Claims 1, 6, 8, 10, 13, 17, and 22 have been amended to clarify that each of the socket
25 layer, the TCP layer, and the IP layer is of a network communication protocol stack.

Therefore, the Office is kindly requested to withdraw the rejections of claims 1-24 under 35 U.S.C. 112. The Office is further requested to note that claims 25-36 have been cancelled.

5 **Rejections under 35 U.S.C. 101**

Claims 25-36 were rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These rejections are traversed.

The Office is requested to note that claims 25-36 have been cancelled.

10 **Rejections under 35 U.S.C. 102**

Claims 1-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Vogel (U.S. Patent No. 6,912,217). These rejections are traversed.

Each of amended independent claims 1 and 17 recites that the operations of adding the first and second headers to each data block of the array of linked data blocks collectively serves to generate a separate packet for each data block in the array of linked data blocks. Additionally, each of amended independent claims 1 and 17 recites that the separate packets for the data blocks are linked to form a packet chain having a packet sequence corresponding to a linkage sequence of the data blocks in the array of linked data blocks.

20 The Office has asserted that the linked list of buffer management descriptors (BMDs) as disclosed by Vogel (Figure 4, column 11, line 65, through column 12, line 16) teaches the array of data blocks as recited in claims 1-24. Based on this assertion by the Office, for each of amended independent claims 1 and 17 to be anticipated by Vogel, it would be necessary for Vogel to teach that a separate packet is generated for each BMD
25 in the linked list of BMDs. However, this is not what Vogel teaches. Rather, Vogel

(Figure 5, column 12, line 59, through column 13, line 15) teaches that a single header pointer 116 is set to point to a single header 118, thereby prefixing the single header 118 to the entire linked list of data (as referenced by the linked list of BMDs) to be encapsulated. Vogel (column 13, lines 13-15) further teaches that the data within each
5 buffer region referenced by the linked list of BMDs is transmitted as a single IP packet having the single header 118 prefixed thereto. Thus, Vogel teaches that the data associated with the various BMDs within the linked list of BMDs is transmitted together within a single IP packet. Consequently, Vogel does not teach that a first and second header is added to each of the BMDs in the linked list of BMDs so as to generate a
10 separate packet for each of the BMDs in the linked list of BMDs.

In view of the foregoing, the Applicants submit that Vogel does not teach adding first and second headers to each of a number of data blocks so as to generate a separate packet for each of the number of data blocks, as recited in each of amended claims 1 and 17. Furthermore, the Applicants submit that Vogel does not teach that separate packets
15 generated for each of the data blocks are linked to form a packet chain having a packet sequence corresponding to a linkage sequence of the data blocks in an array of linked data blocks.

For a claim to be anticipated under 35 U.S.C. 102, each and every feature of the claim must be taught by a single prior art reference. For at least the reasons discussed
20 above, the Applicants submit that Vogel does not teach each and every feature of each of amended independent claims 1 and 17, as required for anticipation under 35 U.S.C. 102. Therefore, the Office is kindly requested to withdraw the rejections of amended claims 1 and 17 under 35 U.S.C. 102.

Additionally, because a dependent claim incorporates each and every feature of
25 the independent claim from which it depends, the Applicants submit that each of

dependent claims 2-16 and 18-24 is patentable for at least the same reasons as its independent claim. Therefore, the Office is kindly requested to withdraw the rejections of dependent claims 2-16 and 18-24 under 35 U.S.C. 102.

The Applicants further request the Office to note that claims 25-36 have been cancelled. Also, the Applicants request the Office to note that new claims 37-45 have been added. The Applicants submit that new independent claim 37 is patentable for at least the same reasons discussed above with regard to independent claims 1 and 17. Also, the Applicants submit that each of new dependent claims 38-45 is patentable for at least the same reasons as independent claim 37.

In view of the foregoing, the Applicants submit that all of the pending claims are in condition for allowance. Therefore, a Notice of Allowance is requested. If the Examiner has any questions concerning the present Amendment, the Examiner is requested to contact the undersigned at (408) 774-6914. If any additional fees are due in connection with filing this Amendment, the Commissioner is also authorized to charge Deposit Account No. 50-0805 (Order No. SUNMP474). A duplicate copy of the transmittal is enclosed for this purpose.

Respectfully submitted,
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